

Amendments to the Specification:

Please amend the specification as follows:

In numbered paragraph [0017] please replace the paragraph with the following paragraph:

--Within the 38 kringles of Apo(a), only one kringle was identified to be anti-angiogenic active (D. Dou, et al., unpublished results). This anti-angiogenic kringle is located at the C-terminal of the protein, or the 38th kringle from Apo(a) primary amino acid sequence. This 38th kringle was named as AK38. The DNA sequence encoding AK38 protein has been registered in the GeneBank ~~under an access number of AY039748. GeneBank will publicly release AY039748 on Jul. 1, 2002~~ as GeneBank LocusID: 4018. --

In numbered paragraph [0018] please replace a portion of the paragraph with the following paragraph portion:

-- Said anti-angiogenic peptides SEQ ID NO:1 to SEQ ID NO:7 are portions of the AK38 protein. Said peptides SEQ ID NO:1 to SEQ ID NO:7 disclosed in this invention were synthesized using Fmoc(9-fluorenylmethyloxycarbonyl)-based solid-phase peptide synthesis.--

In numbered paragraph [0019] please replace a portion of the paragraph with the following paragraph portion:

-- The inhibition of said peptides SEQ ID NO:1 to SEQ ID NO:7 on the endothelial cells was performed on BCE cells (Bovine Capillary Endothelial cells) as shown in Example 9. --

In numbered paragraph [0020] please replace the paragraph with the following paragraph:

--The compositions of the seven peptides in AK38 kingle are listed as follows (C-terminus on the left and N-terminus on the right):

{1}SEQ ID NO: 1: Ile-Val-Pro-Ser-Leu-Gly-Pro-Pro-Ser-Glu-Gln-Asp

{2}SEQ ID NO: 2: Met-Phe-Gly-Asn-Gly-Lys-Gly-Tyr-Arg-Gly-Lys-Lys-Ala-Thr-Thr-Val-Thr-Gly-Thr-Pro

{3}SEQ ID NO: 3: Gln-Gln-Trp-Ala-Ala-Gln-Glu-Pro-His-Arg-His-Ser-Thr-Phe-Ile-Pro-Gly-Thr-Asn-Lys-Trp-Ala-Gly-Leu-Glu-Lys-Asn-Tyr

{4}SEQ ID NO: 4: Arg-Asn-Pro-Asp-Gly-Asp-Ile-Asn-Gly-Pro-Trp

{5}SEQ ID NO: 5: Tyr-Thr-Met-Asn-Pro-Arg-Lys-Leu-Phe-Asp-Tyr

{6}SEQ ID NO: 6: Asp-Ile-Pro-Leu

{7}SEQ ID NO: 7: Ala-Ser-Ser-Ser-Phe-Asp

SEQ ID NO: 8:Trp-Pro-Gly-Asn-Ile-Asp-Gly-Asp-Pro-Asn-Arg

SEQ ID NO: 9: Tyr-Asp-Phe-Leu-Lys-Arg-Pro-Asn-Met-Thr-Tyr --

In numbered paragraph [0021] please replace the paragraph with the following paragraph:

-- Each of these peptides (~~represented by [{1}, {2}, {3}, {4}, {5}, {6}, and {7}]~~ SEQ ID NO:1 to SEQ ID NO:7) is different in its length and composition. However, ~~these~~ peptides SEQ ID NO:1 to SEQ ID NO:7 do have one thing in common: they are all located between two cysteine units within the kringle structure. For the experiments disclosed herein, each peptide is protected by acetyl group (CH₃CO—) at the N-terminus and by amino group (—NH₂) at the C-terminus, and is identified as P1, P2, P3, P4, P5, P6, and P7.--

In numbered paragraph [0038] please replace the paragraph with the following paragraph:

-- X-~~{4'}~~ SEQ ID NO: 8 -Y (~~hereinafter {4'}~~ SEQ ID NO: 8 is a peptide having the same amino acid sequence as that of ~~{4}~~ SEQ ID NO: 4, but in the reversed order, i.e., the same amino acid sequence but the C-terminus becomes the N-terminus and the N-terminus becomes the C-terminus),--

In numbered paragraph [0040] please replace the paragraph with the following paragraph:

-- X-~~{5'}~~ SEQ ID NO: 9 -Y (~~hereinafter {5'}~~ SEQ ID NO: 9 is a peptide having the same amino acid sequence as that of ~~{5}~~ SEQ ID NO: 5, but in the reversed order, i.e., the same amino acid sequence but the C-terminus becomes the N-terminus and the N-terminus becomes the C-terminus),

In numbered paragraph [0042] please replace the paragraph with the following paragraph:

-- X-{4}SEQ ID NO: 4 -Ala-{5}SEQ ID NO: 5-Y --

In numbered paragraph [0044] please replace the paragraph with the following paragraph:

-- X-{4'}SEQ ID NO: 8 -Ala-{5'}SEQ ID NO: 9-Y --

In numbered paragraph [0046] please replace the paragraph with the following paragraph:

-- X-{5}SEQ ID NO: 5 -Ala-{4}SEQ ID NO: 4-Y --

In numbered paragraph [0048] please replace the paragraph with the following paragraph:

-- X-{5'}SEQ ID NO: 9 -Ala-{4'}SEQ ID NO: 8-Y --

In numbered paragraph [0050] please replace the paragraph with the following paragraph:

-- X-{4}SEQ ID NO: 4 -Cys-{5}SEQ ID NO: 5-Y --

In numbered paragraph [0052] please replace the paragraph with the following paragraph:

-- X-{4'}SEQ ID NO: 8 -Cys-{5'}SEQ ID NO: 9-Y --

In numbered paragraph [0054] please replace the paragraph with the following paragraph:

-- X-{5}SEQ ID NO: 5 -Cys-{4}SEQ ID NO: 4-Y --

In numbered paragraph [0056] please replace the paragraph with the following paragraph:

-- X-{5'}SEQ ID NO: 9-Cys-{4'}SEQ ID NO: 8-Y --

In numbered paragraph [0058] please replace the paragraph with the following paragraph:

-- X-{4}SEQ ID NO: 4-(Gly-Gly-Gly-Ser)_n-{5}SEQ ID NO: 5-Y--

In numbered paragraph [0060] please replace the paragraph with the following paragraph:

-- X-{4'}SEQ ID NO: 8-(Gly-Gly-Gly-Ser)_n-{5'}SEQ ID NO: 9-Y --

In numbered paragraph [0062] please replace the paragraph with the following paragraph:

-- X-{5}SEQ ID NO: 5-(Gly-Gly-Gly-Ser)_n-{4}SEQ ID NO: 4-Y --

In numbered paragraph [0064] please replace the paragraph with the following paragraph:

-- X-{5}SEQ ID NO: 9-(Gly-Gly-Gly-Ser)_n-{4'}SEQ ID NO: 8-Y --

In numbered paragraph [0065] please replace the paragraph with the following paragraph:

-- Cys-{4}SEQ ID NO: 4-Ala-{5}SEQ ID NO: 5-Cys



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In numbered paragraph [0066] please replace the paragraph with the following paragraph:

-- Cys—{4'} SEQ ID NO: 8—Ala—{5'} SEQ ID NO: 9—Cys



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In numbered paragraph [0067] please replace the paragraph with the following paragraph:

-- Cys—{5} SEQ ID NO: 5—Ala—{4} SEQ ID NO: 4—Cys



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In numbered paragraph [0068] please replace the paragraph with the following paragraph:

-- Cys—{5'} SEQ ID NO: 9—Ala—{4'} SEQ ID NO: 8—Cys



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In numbered paragraph [0069] please replace the paragraph with the following paragraph:

-- Ala—{4} SEQ ID NO: 4—Ala—{5} SEQ ID NO: 5—Ala



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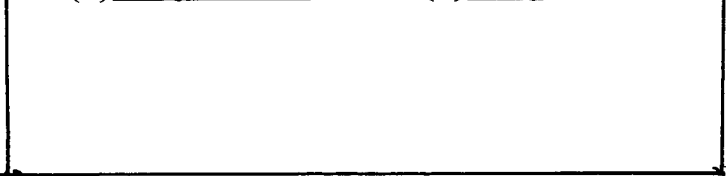
In numbered paragraph [0070] please replace the paragraph with the following paragraph:

-- Ala—{4'} SEQ ID NO: 8—Ala—{5'} SEQ ID NO: 9—Ala



In numbered paragraph [0071] please replace the paragraph with the following paragraph:

-- Ala—{5} SEQ ID NO: 5—Ala—{4} SEQ ID NO: 5—Ala



In numbered paragraph [0072] please replace the paragraph with the following paragraph:

-- Ala—{5'} SEQ ID NO: 9—Ala—{4'} SEQ ID NO: 8—Ala



In numbered paragraph [0078] please replace the paragraph with the following paragraph:

-- (10-4) Therapeutic amount of a pharmaceutical composition comprising {4} SEQ ID NO: 4—Ala—{5} SEQ ID NO: 5 is administered to a patient suffering blindness induced by late-stage diabetes.--

In numbered paragraph [0079] please replace the paragraph with the following paragraph:

-- (10-5) Therapeutic amount of a pharmaceutical composition comprising {4} SEQ ID
NO: 4 -Cys-{5} SEQ ID NO: 5 is administered to a patient of lung cancer for alleviating the
disease.--

In numbered paragraph [0080] please replace the paragraph with the following paragraph:

-- (10-6) Therapeutic amount of a pharmaceutical composition comprising {4} SEQ ID
NO: 8 is administered to a patient of lung cancer for alleviating the disease.--

In numbered paragraph [0081] please replace the paragraph with the following paragraph:

-- (10-7) Therapeutic amount of a pharmaceutical composition comprising {5} SEQ ID
NO: 9 is administered to a patient of lung cancer for alleviating the disease.--

In numbered paragraph [0082] please replace the paragraph with the following paragraph:

-- (10-8) Therapeutic amount of a pharmaceutical composition comprising

Cys-{4} SEQ ID NO: 4 -Ala-{4} SEQ ID NO: 5 -Cys



In numbered paragraph [0084] please replace the paragraph with the following paragraph:

-- (10-9) Therapeutic amount of a pharmaceutical composition comprising

Ala—{4} SEQ ID NO: 4—Ala—{4} SEQ ID NO: 5—Ala



In numbered paragraph [0085] please replace the paragraph with the following paragraph:

-- is administered to a patient of lung cancer for alleviating the disease. (10-10)

Therapeutic amount of a pharmaceutical composition comprising

Ala—{4'} SEQ ID NO: 8—Ala—{5'} SEQ ID NO: 9—Ala

